

A System and Method for Processing Signals in UWB Communications

Abstract

A system and method for processing UWB signals is implemented on an integrated circuit. The system and method of the present invention can be applied to a wide variety of communication needs including data communications, radar, locating, positioning and tracking, with each application meeting a corresponding set of rules defined by spectrum, emission, correlation, coding, etc. The system and method of the invention efficiently and flexibly processes signals in a UWB communication system in terms of receiving, transmitting, coding, acquiring, locking, tracking, timing, correlating, controlling, or calibrating such signals.